

Salivary drug concentrations and adherence: currently used analytical methods

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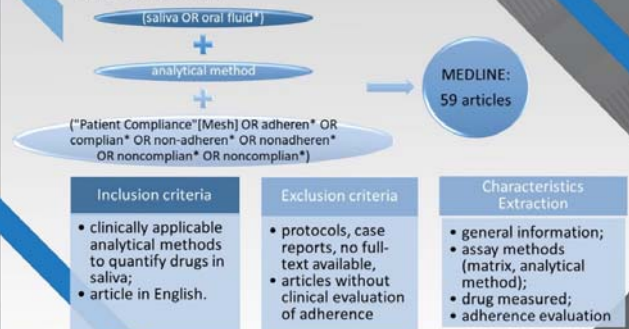
Introduction

- Medication adherence is a key process for therapeutics outcomes in chronic patients.
- Collection of salivary samples is simple, non-invasive and can be realized by the patient at home, but only free fraction of drug passes through saliva.
- How can drugs measured in saliva?

Aim

to identify what methods are currently used to determine salivary drug concentrations for the evaluation of adherence.

Methods



- Eligibility Criteria Screening**
 - All articles were screened for relevance based on title and abstract.
 - The inclusion and exclusion criteria were applied to the abstract and full-text articles.
 - The screening and full-article eligibility assessment was performed by two independent reviewers; the non-consensus cases were discussed and assessed with a third reviewer until consensus was reached.

Results

- The most frequent method

liquid chromatography-tandem mass spectrometry (LC-MS/MS)

Ramschoff JR et al. Drug Alcohol Depend. 2019;203:8-12.
Hedley B et al. J Anal Toxicol. 2011;35(8):129-40.

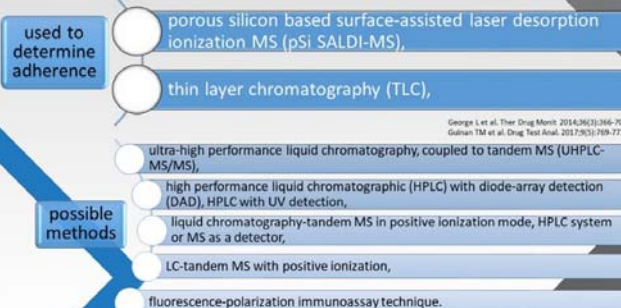
Discussion



- A recent review identified 31 drugs detected in saliva in studies on medication adherence, but only few of them are highly valid and applicable for clinical use (Zijp TR et al. Drugs. 2021;81(11):1983-2002).

Results

- Other methods:



Conclusion

